

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-128  
Relating to Certification of New Motor Vehicles

MERCEDES-BENZ AG

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1993 model Mercedes-Benz AG exhaust emission control systems are certified as described below for passenger cars:

Fuel Type: Gasoline

Engine Family: PMB2.3V6FA10 Displacement: 2.3 Liters (140 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Continuous Fuel Injection  
Three Way Catalytic Converter  
Heated Oxygen Sensor  
Exhaust Gas Recirculation

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
50,000	0.25	3.4	0.4
100,000	0.31	4.2	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Miles</u>	<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
50,000	0.18	1.0	0.3
100,000	0.23	1.4	n/a

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 30<sup>th</sup> day of July, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

Manufacturer Mercedes-BenzEngine Family PMB2.3V6FA10Passenger Car ☒ (PC) Light-Duty Truck (T1/T2) Medium-Duty Vehicle (M1/M2/M3/M4/M5)Stds Type: Tier 1 (Tier 0/1, AB965, TLEV, LEV, ULEV) Veh. Type (FFV, HEV(type A/B/C)):Fuel Type: GASOLINEEvaporative Family: PMBV6-2Engine Config. I-4 Liter (CID) 2.3 (140)Engine: Front ☒ Mid. Rear Drive: FWD RWD ☒ 4WD-FT 4WD-PTExhaust ECS & Special Features (incl. CARB, MFI, etc.) CPI /TWC/HO2S/EGR  
(use abbreviations per SAE 1930 MAY91)

EngineCode (Cert. Std.)	Vehicle Models (if coded see attachment)	Trans.Type A-automatic M-manual	ETW	DPA or RLHP	Ignition (ECM/PCM) Part No	EGR System Part No.	Catalyst Part No.
M 102-1	190E2.3	A-4	3375	7.7	010 545 59 32 010 545 60 32	001 140 82 60 or 001 140 94 60	201 490 44 14 or 201 490 45 14

**1993 MODEL YEAR CERTIFICATION REVIEW SHEET  
EXHAUST/EVAPORATIVE SYSTEM & CALIFORNIA REQUIREMENTS**

E.O.# A-3-128  
Page 2 of 2

Mfr. Mercedes-Benz

Engine Family PMB2.3V6FA10

Passenger Car X

Light-Duty Truck

Medium-Duty Vehicle

Stds. Type: Tier-0

Veh. Type: FFV

Engine Config: I-4

Engine: Front X

LVW

LVW

Tier-1 X

HEV

Liter (CID) 2.3(140)

Mid.

Rear

AB965

(Type A/B/C)

Drive: FWD

RWD X

Evaporative Family PMBV6-2

Types of Eng Code in Eng Fam: CA

Fuel Type(s) GASOLINE

TLEV

LEV

ULEV

Valves/Cyl. 2

Rated HP 130 @ 5100 RPM

4WD-FT

4WD-PT

1.5

49S

50S

X

Exhaust ECS & Special Features (incl. CARB, MFI, etc.) CFI /TWC/HO2S/EGR  
(Use abbreviations per SAE J1930 MAY91)

	Sect/Page #		Sect/Page #
1 Authorized Representative	01	14 Gen. Std. Increase in Em.,	16/01
2 Fuel, Test Equip/Proc/Route	03,04,05	Safety, Mtg. all Reqs.	
3 Emiss. Warranty Statement	17/04-12	15 Prod. Veh. same as Test Veh.	17/35
4 Maint. Cert./Req'd/Recm'd	06	16 Emiss. Label Durability	17/37
5 Emiss. Label/Vac. Hose Diag	07	17 Driveability Statement	17/38
6 Evap. Control System	08/44-52;09	18 Fill Pipe Specifications	17/40-44
7 Engine Parameters	10/01-15	19 Altitude A/F Requirements	08/25
8 Fuel/Ignition System	08/01-20;34-35	20 OBD Sys incl. Marked Revisions	17/45-57
9 Exhaust Control System	08/21-33;10/23-26	21 I&M Test Procedure & Data	attached
10 Proj. Sales (LDT/MDV Split)	17/15	22 Cert Plan/50k-100k/OptNOx	17/03
11 Vehicle Description	10/28-30	23 NMOG Compliance Plan & RAF	DNA
12 Evap Bench Test Procedure	17/25-34	24 EPA Certificate	attached MBZ-LDV-93-01
13 Test Vehicle Information	Durability	Emission	Emission
C/O or C/A MY & ID	Data Vehicle	Data Vehicle	Data Vehicle
Vehicle Log Page(s)	assigned DF	93&W201E23-Z1005	-
Zero Mile Book Page(s)	-	already at CARB	-
Maint. Logs & Engr. Eval.	-	"	-
	-	"	-

**PROJECTED EMISSION (g/mi, except g/test for evap.) (1), (2)**

Data*	Code	Test	Trans	ETW	DPA/ RLHP	MPG City/Hwy	NMHC	CO	NOx	Hwy NOx	Evap/ Part	CO2
Veh. ID	(Displ.)	Loc										
W 201E23-Z1005	2.3 Liter	Mfr.	A-4	3375	7.7	22.9/33.4	<u>0.18/</u>	<u>1.0/</u>	<u>0.3</u>	0.07	0.46	388
(version 06)							<u>0.23</u>	<u>1.4</u>				

(1) The EDV above comply with standards of (@ 50K):  
 (100K for PC & LDT, 120K for MDV):  
 and includes deterioration factor of (@ 50K):  
 (100 K for PC & LDT, 120 K for MDV):  
 and an RAF (reactivity adjustment factor) for NMOG of: DNA

(2) Evaporative DF is the average of: Vehicle DF 0.000 and Bench DF 0.000

\* List configuration with the highest projected sales first / I & M DATA IN APPS.

Remarks using assigned 50k/100k miles deterioration factors for gaseous emissions

Application

Processed by [Signature]

Date 7-28-92

Reviewed by [Signature]

Date 7/29/92